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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/530,512	04/06/2005	Charles Keller	1321.2.83.1 6728		
21552 MADSON & A	7590 07/02/200 .USTIN	7	EXAM	EXAMINER	
GATEWAY TO	EWAY TOWER WEST		WILDER, CYNTHIA B		
SUITE 900 15 WEST SOU			ART UNIT	PAPER NUMBER	
SALT LAKE C	CITY, UT 84101		1637		
			MAIL DATE	DELIVERY MODE	
			07/02/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		<b>T</b>	T			
		Application No.	Applicant(s)			
		10/530,512	KELLER ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Cynthia B. Wilder, Ph.D.	1637			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	☑ Responsive to communication(s) filed on <u>30 May 2006</u> .					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠	◯ Claim(s) 1,8,9,11,12,14,15,17,18,20,21,23 and 25-36 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)[	5) Claim(s) is/are allowed.					
6)[	6) Claim(s) is/are rejected.					
7)	·- · · · · · · · · · · · · · · · · · ·					
8)⊠	Claim(s) <u>1, 8-9, 11-12, 14, 15, 17-18, 20-21, 2</u>	3, 25-36 are subject to restriction	and/or election requirement.			
Applicati	ion Papers		•			
9)[	The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.			
Priority (	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ul>						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachmen	et(s) ce of References Cited (PTO-892)	4) 🔲 Interview Summary	v (PTO-413)			
	ce of References Cited (PTO-692) ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	Date			
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal I	Patent Application			

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## **DETAILED ACTION**

## Sequence Election Requirement Applicant to All Groups

- 1. The claims 1, 8-9, 11-12, 14-15, 17-18, 20-21, 23 and 25-36 reads on patentably distinct SEQ ID Numbers. Each sequence is patentably distinct because the sequences are structurally unrelated sequences, and a further restriction is applied to each Group. Applicant must further elect a single SEQ ID NO: from each of the following groups:
- (a) GSTM1 primer sequence = SEQ ID NOS: 1-5
- (b) GSTM3 and GSTT1 primer sequence = SEQ ID NOS: 9-12, 24-26
- (c) GSTP1 specific primer sequence = SEQ ID NOS: 13-23
- (d) Beta-actin primer sequence = SEQ ID NOS: 6-8
- (e) GSTT1\*0 primer sequence = SEQ ID NO: 33-34
- (f) GSTT1/GSTT2 primer sequence = SEQ ID NO: 31-32.

Applicant's election will result in a total of six sequence (6 SEQ ID NOS:).

Applicant must specifically identify each of the corresponding SEQ ID NO: X or SEQ ID NO: Y for the sequence elected along with the corresponding claims and primer sequence as outlined above.

## MPEP 803.04 states:

Nucleotide sequences encoding different proteins are structurally distinct chemical compounds and are unrelated to one another. The sequences are thus deemed to normally constitute independent and distinct inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such nucleotide sequence or amino acid sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 eq seq. By statute, "[i]f two or more independent and distinct inventions are claimed in one application, the Commissioner may require the application to be restricted to one of the invention". "35 U.S.C. 121." Pursuant to this statute, the rules provided that "[i]f two or more independent and distinct invention are claimed in a single application, the

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examiner in his action shall require the Applicant....to elect that invention to which his claim shall be restricted". 37 CFR 1.142(a). See also 37 CFR 1.141(a).

Applicant is advised that examination will be restricted to only the elected SEQ ID NO: and should not to be construed as a species election. Non-elected sequences in multiple sequence claims will be withdrawn from prosecution.

2. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the 4.

examiner should be directed to Cynthia B. Wilder, Ph.D. whose telephone number is

(571) 272-0791. The examiner can normally be reached on a flexible schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gary Benzion can be reached on (571) 272-0782. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Status information for Patent Application Information Retrieval (PAIR) system.

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cynthia B. Wilder, Ph.

Patent Examiner

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6/23/2007